

## ABSTRACT

An angular velocity sensor is provided, which is capable of accurate failure diagnosis on a detecting portion despite of its simple configuration and small size without providing additional means on an oscillator separately from the driving portion and a detecting portion. When a check signal for carrying out failure diagnosis is input to terminal (54) from outside, the degree of amplification at amplifier (45) is decreased, and the degree of amplification at amplifier (44) is simultaneously increased by an operation of AGC circuit (43). As a result, a driving signal having the decreased amplitude can be obtained at terminals (50) and (53), and a driving signal having the increased amplitude can be obtained at terminals (51) and (52). The driving signals are supplied to one driving electrode and another driving electrode, respectively, of a pair of driving electrodes spaced from each other across the center of the arm of a tuning fork type oscillator through terminals (50) to (53).